

# **Field Service Procedure**

PEEP/Pmax Valve Replacement and Adjustment Anesthesia



Revision A 3/10/04 SP00311

#### **Service Procedure**

### PEEP/Pmax Valve Replacement and Adjustment

#### PEEP/PMAX VALVE REPLACEMENT AND ADJUSTMENT

- 1 Preparing the Breathing System
- Set machine power switch to the Off position and close all flow control valves.
- 2. Disconnect the PEEP/Pmax hose from its valve dome.
- 3. Using a two-hole spanner wrench (7910305) remove the PEEP/Pmax valve dome from the breathing system. See Fig. 1.
- 2 Replacing the PEEP/Pmax Valve
- 1. Remove the existing PEEP/Pmax valve assembly and install the replacement assembly as shown in Fig. 1.



#### NOTE

Ensure that the valve assembly is properly seated in the valve crater.



#### NOTE

Should the new valve become disassembled in shipment, refer to Fig. 2 for the correct arrangement of its parts.

- 2. Reinstall the PEEP/Pmax valve dome on the breathing system and tighten. Reconnect the PEEP/Pmax hose to the hose barb on the valve dome.
- 2.1 Performance Tests
- 1. Set machine power switch to the On position, and perform the PMS test steps outlined in the following sections of the Service Manual:

Fabuis GS	Fabius Tiro
7.6 Calibration	8.6 Calibration
7.9 Breathing System	8.9 Breathing System
7.21 Ventilator	8.21 Ventilator

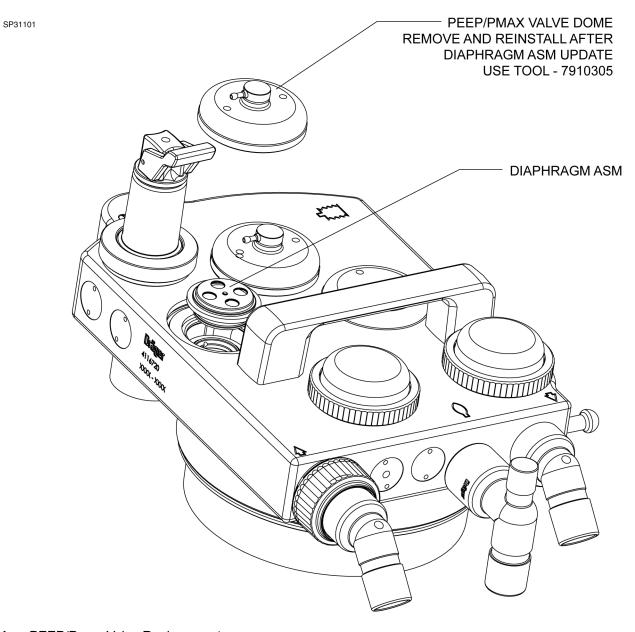


Fig. 1 PEEP/Pmax Valve Replacement

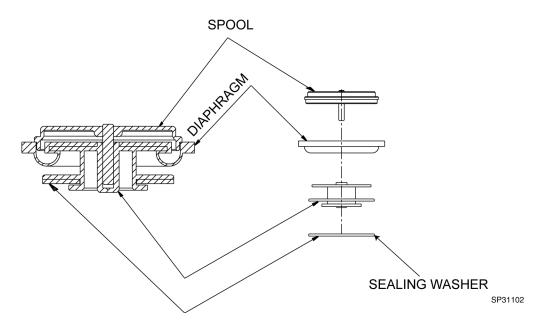


Fig. 2 PEEP/Pmax Valve Diaphragm Arrangement



#### NOTE:

If PEEP/Pmax valve readings are out of specification, proceed to PEEP/Pmax Valve Adjustment section.

### 3 PEEP/Pmax Valve Adjustment

- 1. Perform steps 2 & 3 of the Preparing the Breathing System section.
- 2. With only the Peep/Pmax valve dome removed from the breathing system, using the part number located on the diaphragm as a reference, note the orientation axis of the diaphragm assembly as it resides in the breathing for later re-orientation. Make a temporary indication of original axis as a reference point on the breathing system.
- Remove the complete diaphragm assembly from breathing system and inspect the condition of the sealing washer located on the bottom of diaphragm assembly. Clean if necessary.
- 4. Using the part number as the reference, orient the diaphragm assembly approximately 90 degrees clockwise from the original reference point, and install. See Fig. 3.
- 5. Reinstall the PEEP/Pmax valve dome on the breathing system and reconnect the PEEP/Pmax hose to the hose barb on the dome assembly.
- 6. Enter the main Service Screen and perform the Peep calibration.
- 7. Perform the Peep calibration. Verify Peep calibration indicates a PASS condition.

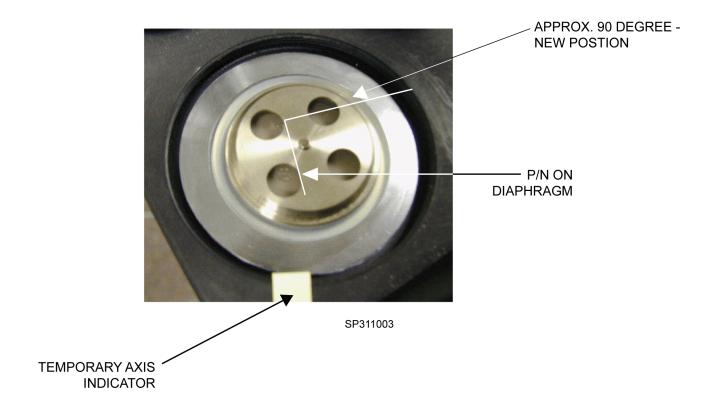


Fig. 3 PEEP/Pmax Adjustment

#### 3.1 Performance Tests

1. Set the machine power switch to the On position and perform the PMS tests outlined in the following sections of the Service Manual:

Fabuis GS	Fabius Tiro
7.6 Calibration	8.6 Calibration
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- 2. Proceed to confirm the following settings.
  - Freshgas = 3 L/min
  - Pmax = 70 mbar (cmH2O)
  - Vt = 380 ml
  - Freq = 4
  - TI:TE = 1:4.0
  - TIP:TI = 10%
  - PEEP = 10 cmH2O

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- 3. Via the Pressure Display, verify real time PEEP pressure is stable and does not exhibit decay during the expiratory phase.
- 4. Remove temporary indicator and return unit back to its' original configuration and settings.

## PEEP/Pmax Valve Replacement and Adjustment

**Service Procedure** 

In the United States: Draeger Medical, Inc. 3136 Quarry Road Telford, PA 18969 USA

Tel: (215) 721-5402 (800) 543-5047 Fax: (215) 721-5785

PEEP/Pmax Valve Replacement en SP00311

Subject to change without notice.
Will not be replaced in the event of modifications.

In all other countries:

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D-23542 Lübeck

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